

What is claimed is:

1 1. A shock tube, comprising:
2 a driver section;
3 an extension section connected to the driver section; and
4 shock absorbent material,
5 wherein the driver section and extension section define a cavity and the shock absorbent
6 material is disposed within the cavity.

1 2. The shock tube according to claim 1, wherein the extension section includes sidewalls,
2 and the shock absorbent material is disposed on the sidewalls.

1 3. The shock tube according to claim 1, wherein the driver section includes a end wall
2 oppositely disposed from the extension section, and the shock absorbent material is disposed
3 proximate to the end wall.

1 4. The shock tube according to claim 1, wherein the extension section includes an
2 expansion section connecting the extension section to the driver section.

1 5. The shock tube according to claim 4, wherein the expansion section includes
2 sidewalls, and the shock absorbent material is disposed on the sidewalls.

1 6. The shock tube according to claim 1, further comprising a retention device for
2 securing the shock absorbent material within the cavity.

1 7. A shock tube, comprising:

2 a driver section;

3 an extension section connected to the driver section; and

4 at least one active vent disposed over a respective hole in the extension section connected
5 to a cavity defined by the extension section.

1 8. The shock tube according to claim 7, wherein the at least one active vent is
2 positionable in at least two positions and includes a vent cover and resilient members, and

3 in a first position, the vent cover covers the hole in the extension section to prevent fluid
4 from escaping the cavity from the hole, and

5 in a second position, the hole in the extension section is uncovered.

1 9. The shock tube according to claim 7, wherein the at least one active vent is
2 positionable in at least two positions and includes a piston having a vent cover, and

3 in a first position, the vent cover covers the hole in the extension section to prevent fluid
4 from escaping the cavity from the hole, and

5 in a second position, the hole in the extension section is uncovered.

1 10. The shock tube according to claim 9, wherein the piston includes an upper piston
2 head connected to the vent.

1 11. The shock tube according to claim 10, wherein the at least one active vent includes a
2 dashpot connected to the upper piston head.

1 12. The shock tube according to claim 7, wherein the extension section includes an
2 expansion section connecting the extension section to the driver section.

1 13. The shock tube according to claim 12, wherein the expansion section includes the at
2 least one active vent.

1 14. The shock tube according to claim 7, wherein the shock tube includes two or more
2 active vents that are separate from one another.

1 15. The shock tube according to claim 7, wherein the shock tube includes two or more
2 active vents connected together with a common manifold.

1 16. A shock tube, comprising:
2 a driver section;
3 an extension section connected to the driver section; and
4 wherein the extension section is adjustable between one of at least two positions, and a
5 length of the extension section in a first position is longer than a length of the extension section
6 in a second position.

1 17. The shock tube according to claim 16, wherein the extension section includes an
2 expansion section connecting the extension section to the driver section and the expansion
3 section is movable within extension section.

2025-10-20 16:00:00

1 18. The shock tube according to claim 16, further comprising a support for holding the
2 target, and the support is adjustably positionable within the extension section.

1 19. The shock tube according to claim 16, wherein the extension section includes two or
2 more segments that are movable relative to another to change a length of the extension section.

1 20. The shock tube according to claim 16, wherein the extension section includes an
2 expansion section connecting the extension section to the driver section.

1 21. A shock tube, comprising:
2 a driver section;
3 an extension section connected to the driver section; and
4 wherein a capacity of the extension section is adjustable between one of at least two
5 capacities.